

#117

Last

First

Middle Initial

ID Number

## MISSOURI DEPARTMENT OF HEALTH AND SENIOR SERVICES

### #A - PERCOLATION TEST RESULTS EXERCISE #117

Property Owner \_ Phil G. Houg \_\_\_\_\_

Site Address \_ 201 Pennsylvania \_\_\_\_\_

Depth of Hole \_ 20 \_\_\_\_\_ inches

Test Hole Location \_ Backyard North side of lot \_\_\_\_\_

Diameter of Hole \_ 8 \_\_\_\_\_ inches

Date Holes Were Prepared \_ 2-1-10 \_\_\_\_\_

Depth to Restrictive Layer \_ &gt; 48 inches \_\_\_\_\_

Time Holes Were Initially Filled \_ 12:50 pm \_\_\_\_\_

Type of Restrictive Layer \_ none \_\_\_\_\_

Date Test Performed \_ 2-2-10 \_\_\_\_\_

% Chert \_ N.A. \_\_\_\_\_

Time Test Was Started \_ 8:30 am \_\_\_\_\_

Name of Tester \_ Al Trader \_\_\_\_\_

Tester ID No. \_ 2xxxx \_\_\_\_\_

Test Hole 1

Time	Interval (minutes)	Water Drop (fraction)	Water Drop (decimal)	Perc Rate
8:30	30	1.0"		30
9:00	30	1/2"		60
9:30	30	1/2"		60
10:00	30	1/8"		240

Test Hole 2

Time	Interval (minutes)	Water Drop (fraction)	Water Drop (decimal)	Perc Rate
8:35	30	1/2"	0.5	
9:05	30	1/2"	0.5	
9:35	30	1/4"	0.25	
10:05	30	1/8"	0.125	

Test Hole 3

Time	Interval (minutes)	Water Drop (fraction)	Water Drop (decimal)	Perc Rate
8:40	30	5/8"		48
9:10	30		0.625	
9:40	30			120
10:10	30			120

Test Hole 4

Time	Interval (minutes)	Water Drop (fraction)	Water Drop (decimal)	Perc Rate
8:45	30		0.125	
9:15	30		0.25	
9:45	30	3/8"		
10:15	30	1/4"		

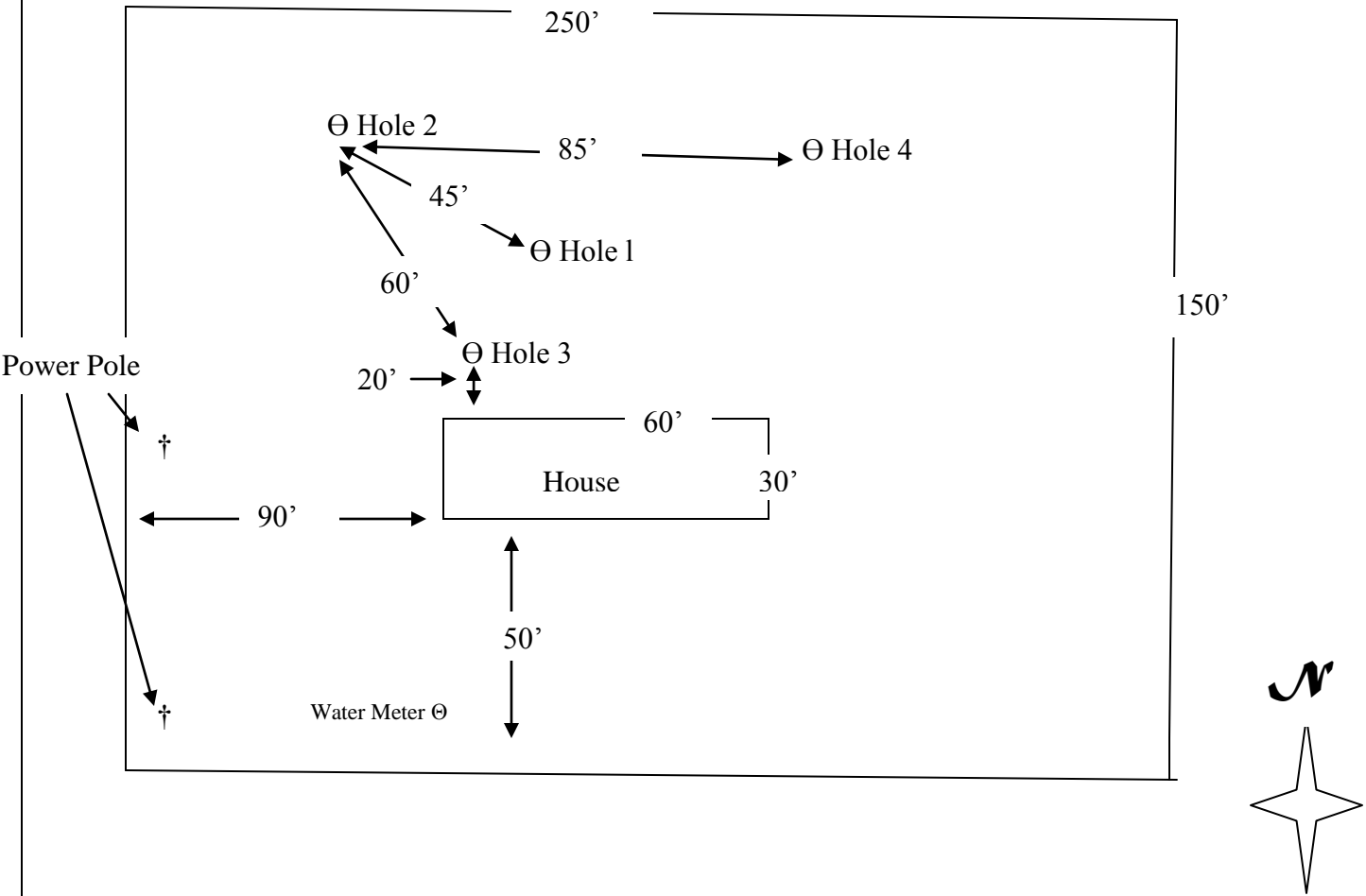
Show all calculations and diagrams of test hole locations on the back of this form.

CALCULATIONS - #A - PERCOLATION TEST RESULTS EXERCISE #117

DIAGRAM OF TEST HOLE LOCATIONS

1. Locate building or proposed building site.
2. Locate all test holes with distances from the building.
3. Locate any existing well and neighbor's well.
4. Locate property lines and all setback requirements.
5. Locate geological and topographical features.
6. Give slope and show direction of slope.

Not Drawn to Scale



SIGNATURE OF TESTER\_\_\_\_\_

## PERC TEST FOR PHIL G. HOUG

1. The perc test holes were dug twenty (20) inches deep and eight (8) inches in diameter. The sides were scratched and the loose material removed. Two (2) inches of gravel was placed in the bottom and the hole was filled with water, to a depth of twelve (12) inches and held for an hour.

Was the preparation phase of the test properly done, and if it wasn't what was done wrong?

YES NO

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2. Fill in the blanks for the four test holes to complete the test results provided. This may mean determining the water drop as a fraction or a decimal or calculating the perc rate, etc.
3. The test should continue until three (3) consecutive percolation rates vary by a range of no more than ten (10) percent. Complete the table below and determine the percent variation for the readings.

Test Hole 1	Test Hole 2	Test Hole 3	Test Hole 4
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

Was the test conducted until there was no more than ten (10) percent variation? YES NO

4. Which perc rate must be used to design the system? \_\_\_\_\_ min./inch

5. What is missing from the site diagram?

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